

TABLE 3.—Maximum free-air wind velocities (M. P. S.) for different sections of the United States, based on pilot-balloon observations during November 1942

Section	Surface to 2,500 meters (m. s. l.)					Between 2,500 and 5,000 meters (m. s. l.)					Above 5,000 meters (m. s. l.)				
	Maximum velocity	Direction	Altitude (m.) m. s. l.	Date	Station	Maximum velocity	Direction	Altitude (m.) m. s. l.	Date	Station	Maximum velocity	Direction	Altitude (m.) m. s. l.	Date	Station
Northeast ¹	43.2	NW	2,500	28	Boston, Mass.	58.0	NW	2,980	28	Boston, Mass.	67.0	NNW	8,520	15	Caribou, Maine.
East-Central ¹	36.0	WNW	2,090	13	Washington, D. C.	48.0	NW	4,530	27	Knoxville, Tenn.	76.0	WSW	9,840	11	Greensboro, N. C.
Southeast ²	30.2	SW	2,450	24	Charleston, S. C.	34.4	WNW	4,610	27	Birmingham, Ala.	66.0	W	13,080	13	Tampa, Fla.
North-Central ⁴	44.4	NW	1,430	12	Duluth, Minn.	55.0	NW	4,820	12	Fargo, N. Dak.	74.4	NW	10,370	8	Detroit, Mich.
Central ⁴	38.3	SW	1,240	16	Indianapolis, Ind.	43.2	WNW	3,150	12	Joliet, Ill.	63.0	W	7,280	17	Omaha, Nebr.
South-Central ⁵	40.8	W	2,430	30	Ablene, Tex.	35.3	WSW	4,960	16	Amarillo, Tex.	65.0	WSW	11,410	30	St. Louis, Mo.
Northwest ⁷	35.0	SSW	1,540	2	Seattle, Wash.	50.4	W	3,860	29	Ellensburg, Wash.	56.0	NW	5,770	25	Oklahoma City, Okla.
West-Central ⁴	41.9	W	2,480	17	Cheyenne, Wyo.	58.0	SW	4,340	3	Ely, Nev.	70.0	NNW	10,200	29	Pocatello, Idaho.
Southwest ⁴	35.8	W	2,480	30	El Paso, Tex.	40.9	W	4,960	17	Albuquerque, N. Mex.	68.0	W	12,050	9	Pueblo, Colo.
															Albuquerque, N. Mex.

¹ Maine, Vermont, New Hampshire, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania and Northern Ohio.

² Delaware, Maryland, Virginia, West Virginia, Southern Ohio, Kentucky, Eastern Tennessee, and North Carolina.

³ South Carolina, Georgia, Florida, and Alabama.

⁴ Michigan, Wisconsin, Minnesota, North Dakota, and South Dakota.

⁵ Indiana, Illinois, Iowa, Nebraska, Kansas, and Missouri.

⁶ Mississippi, Arkansas, Louisiana, Oklahoma, Texas (except El Paso), and western Tennessee.

⁷ Montana, Idaho, Washington, and Oregon.

⁸ Wyoming, Colorado, Utah, northern Nevada, and northern California.

⁹ Southern California, southern Nevada, Arizona, New Mexico, and extreme west Texas.

RIVER STAGES AND FLOODS

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Precipitation during November was abnormally heavy in a large northwestern area, including northern California, and also from the central Mississippi Valley and Lake Region eastward. The month was abnormally dry in the South, especially the Southwest where very little precipitation occurred; New Mexico had only 3 percent of normal rainfall for the month.

The only flooding of consequence during the month was in the Willamette River Basin in Oregon. There was considerable flooding of lowlands and record or near record stages were reached in some cases.

Flooding in the Willamette Basin occurred at three distinct periods near the end of the month, namely, November 23-25; 27-28; and 29-30. In the first period, stages were generally higher in the lower basin while in the last period the highest stages were in the upper basin.

The Ohio River was at a low stage at the beginning of the month but several rises occurred thereafter and at the end of the month moderate stages existed. In the Mississippi River, seasonable moderate stages prevailed, the highest stages being reached near the end of the month.

The extreme upper Mississippi River was reported closed to navigation on November 26, and all pools frozen over by December 2.

FLOOD-STAGE REPORT FOR NOVEMBER 1942

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
MISSISSIPPI SYSTEM					
Upper Mississippi Basin					
Illinois: Beardstown, Ill.....	14	29	30	14.2	29-30
Mississippi: Louisiana, Mo.....	12	22	23	12.1	22
Ohio Basin					
West Fork White: Edwardsport, Ind.....	12	21	21	12.7	21
Arkansas Basin					
Black: Black Rock, Ark.....	14	23	24	14.6	23
Lower Mississippi Basin					
St. Francis: Fisk, Mo.....	20	26	26	20.3	26
WEST GULF OF MEXICO DRAINAGE					
East Fork of Trinity: Rockwall (near), Tex.....	10	6	8	10.6	
PACIFIC SLOPE DRAINAGE					
Columbia Basin					
Middle Fork of Willamette: Eula, Oreg....	13	27	27	13.4	27
Coast Fork of Willamette: Saginaw, Oreg....	9	29	29	9.5	29
McKenzie: Leaburg, Oreg.....	12	23	24	15.9	23
		27	28	17.8	27
		29	(1)	19.4	29
		23	25	20.8	24
Santiam: Jefferson, Oreg.....	13	26	29	19.8	27
		29	(1)	19.6	30
Luckiamute: Suver, Oreg.....	25	24	25	28.4	24
		27	(1)	28.5	27
South Yamhill: Willamina, Oreg.....	8	23	23	10.3	23
		26	26	9.2	26
Long Tom: Monroe, Oreg.....	10	24	25	11.5	24
		27	28	10.4	28
Willamette: Eugene, Oreg.....	12	27	27	12.0	27
		30	30	14.6	30
		24	25	13.8	24-25
Harrisburg, Oreg.....	10	27	(1)	15.7	30
Albany, Oreg.....	20	29	29	20.3	29
Salem, Oreg.....	20	30	(1)	21.3	30
Oregon City, Oreg.....	12	26	(1)	13.0	29-30

¹ Continued into following month.